



# Optima OP-924 Series

## User Manual

# Warnings



- For safety operation of the weighing indicator, please follow the following warning/safety instructions:
  - Calibration inspection and maintenance of the indicator are prohibited by non-professional staff
  - Please ensure that the indicator has good ground
  - The indicator is a static and sensitive equipment; Please cut off power during electrical connections; Touching the internal components by hand is prohibited; Please take anti-static prevention measures



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# Optima OP-924 Series

## User Manual / Getting Started

### Overview

Thank you for using Optima's OP-924 series crane scale for your important application. This crane scale has a die-cast enclosure with the option of LED (OP-924A) or LCD display (OP-924B) The OP-924 series crane scale can be used for many type of applications. The function features are as follows:

- High capacity hook and ring, professional designed load cell with high safety
- Good weighing performance, display accurate data quickly
- Advanced technology, reliable circuit, suitable for harsh conditions
- Low power design, long battery usage time
- Easy operation with infrared remote control
- Low-battery detection and warning: shutdown automatically when low battery
- Hold function
- Accumulation function: add, clear and check accumulation weight
- 10 times weight data store, save the data automatically before shutdown
- Power saving function, idle mode, and auto power off function
- Preset tare weight function

### Technical Parameters

- Accuracy class: III
- Tare range: 100% max capacity
- Initial zero range:  $\pm 10\%$  max capacity
- Manual zero range:  $\pm 2\%$  max capacity
- Operation temperature & humidity:  $-10\sim+40^{\circ}\text{C}$ ;  $\leq 90\%\text{RH}$
- Storage temperature:  $-40\sim+70^{\circ}\text{C}$

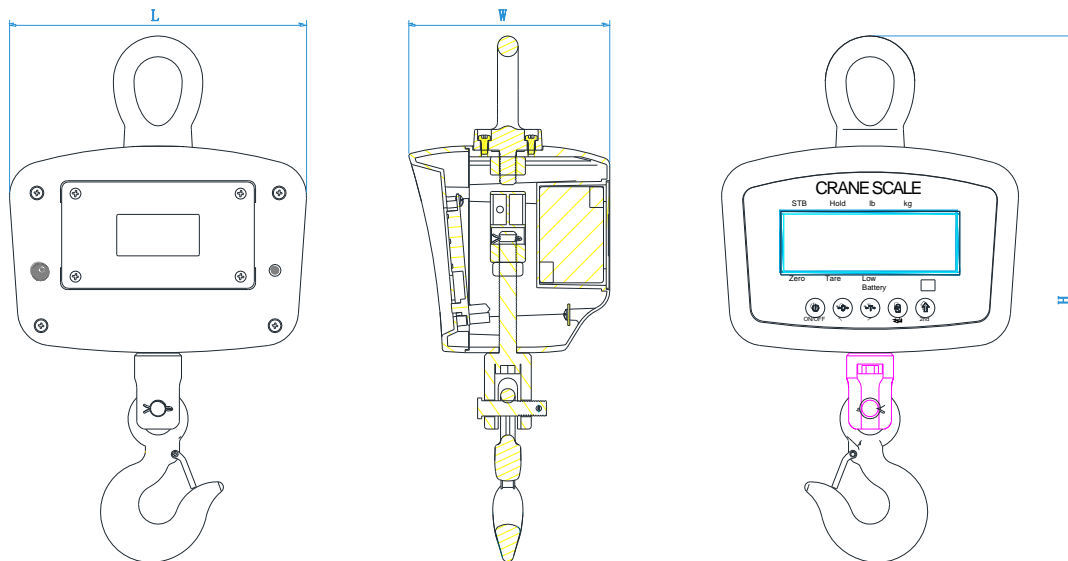
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### Battery Instruction

The crane scale use 6v/4.5Ah rechargeable battery and lasts for about 80~150 hours. When “low battery” detected (low battery indicator light on), please charge the battery. If not charged in a timely manner, the crane scale will shut down automatically. The battery, charge interface, and battery indicator light are located at the back of the crane scale. When the indicator light turns yellow to green, the charging is finished (about 8~12 hours).

### Specification















Product No.	Maximum Capacity (lb)	Division (lb)	Outline size W*L*H (in.*in.*in.)	<u>Net weight</u> (lb)
OP-924A (LED),	500	0.1	5.75*8.50*15.16	9.5
	1,000	0.2	5.75*8.50*15.16	9.5
	1,500	0.2	5.75*8.50*15.16	9.5
OP-924B (LCD)	2,000	0.5	5.75*8.50*15.16	9.5
	3,000	0.5	5.75*8.50*15.16	9.5

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### Basic Operation

Key/ function	Weighing mode	2nd mode	Data input	Parameter setting
	On/Off	Exit		Exit
	Zero	kg/lb unit change	Add 1 to the data	page up
	Tare	Preset tare weight	cursor flashing to the right	
	Hold	Parameter setting	confirm	Enter to next step
	2nd	Calibration mode		
	Accumulate		Reduce 1 to the data	Page down
	Clear last accumulation	Clear all the accumulation	cursor flashing to the right	
	Check the accumulation	Check the battery		
	serial interface send the data once	Set the serial interface		
	Check the last weight	Check the internal code		
	Store the weight			
	Reserve			


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### Power On


Press  for 1 second, then power on self-test and battery voltage check. If zero range exceeded, display will show [ERR6], else the displayed weigh will go to zero.

### Power Off


Press  on the crane scale or remote control, and the battery voltage check will be performed. Then the scale will power off. If the battery is under voltage, the crane scale will power off automatically. If there is no operation in 30 minutes, the crane scale will power off automatically as well.


### Zero

In the manual zero range, when not in hold mode with stable weighing,



press , then the scale will zero out.

### Tare

In stable weighing, press  to enter into net weight mode, tare the current

weight as tare weight, and displays net weight zero; Press  again, and scale goes back to gross weight mode and displays gross weight .



### Hold

Press  to keep the current weighing data; Press  again to release the hold function.


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### 2<sup>nd</sup> Mode

Press  and display [ 2nd ], then press different combination keys for the different function, and press  to exit.

### Accumulation Function


Load weight and wait for it to be stable, then press , accumulate to the current weight and display[ ACC ]; If Upper limit exceeded, then display [noACC].





Press  to clear the last accumulation data, and display [dEL ]; If not, it will display [nodEL].

Press  and display [n\*\*\* ], meaning the times of accumulation, then display the total weight after about 3 seconds. Then it will go back to weighing mode.

Press  and display [ 2nd ], then press  to clear all the accumulation data, and it will display [CLEAR].

### Weight Display

Press , display [StorE]; it will save the current weight value.

Press , display [LAsT0], press  or  to choose different serial number ( current weight save as 0, the first weight save as 9 ), press , display the corresponding weight 2 seconds, then back to weighing mode.



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### Kg/Lb Conversion

Press , display [ 2nd ], then press  to convert between kg and lb.

### Preset Tare Weight

Press , display [ 2nd ]. Then press , display [00000]; press combination keys     to input tare weight value, then press  to confirm the input value. After that the crane scale goes to net weight mode.

### Parameter Settings

Press , display [ 2nd ], then press  to enter into system parameter setting: adjust division, delay automatic off, delay idle, filter intensity, display brightness, zero range, stable intensity, hold mode, warning tone, kg/lb conversion. After

every operation, please press  to confirm and enter into next step;

Press  to exit.

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Content	Display	Parameter instruction	Default value
Display division	E	0.02 = 0.02kg/lb 0.05 = 0.05kg/lb 0.1 = 0.1kg/lb 0.2 = 0.2kg/lb 0.5 = 0.5kg/lb 1 = 1kg/lb 2 = 2kg/lb	1
Automatic power off	oFF	00 = close this function 10 = 10 minutes delay 30 = 30 minutes delay 60 = 60 minutes delay 90 = 90 minutes delay	10
Idle mode <sup>1)</sup>	idL	00 = close this function 10 = 10 minutes delay 30 = 30 minutes delay 60 = 60 minutes delay 90 = 90 minutes delay	30
Kg/lb conversion	UnS	0 stop kg/lb conversion 1= kg/lb conversion is ok	1
Hold mode	hoLd	0 =close hold function 1 =Peak hold 2 =Data Hold 3 =Auto Hold 4 =Animal scale function	2
Zero range	Zero	0=close manually zero setting and Initial zero range 1=Initial zero range $\pm$ 10% , manually zero range $\pm$ 2% 2= Initial zero range 100% , manually zero range 100%	1
Filter intensity	FIL	0=close the function 1=weak 2=moderate 3=strong	2
Stable intensity	Stb	0=weak 1=moderate 2=strong	1
Warning tone	beep	0 close warning tone 1 open warning tone	1
Display brightness	LEdb	1=light 2= moderate 3=dark	1
Zero track speed	ZtS	0= no zero tracking 1= $\pm$ 0.5d/s 2= $\pm$ 1d/s 3= $\pm$ 2d/s 4= $\pm$ 5d/s	1

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### Battery Power Level Checking

Press , display [ 2nd ], then press , display [U 6.\*\*] battery power level 2 seconds, back to weighing mode.

### Internal Code Checking

Press , display [ 2nd ], then press , display internal code (only used in Maintenance and debugging)

Press , display [ 2nd ], then press  to go back to weighing mode.

### Display Code

Screen Display	Instructions	Remark
Err6	Exceed zero range	Check the crane load or not
U 6.28	Battery power	
uuuuuu	Overload	Reduce the weight
nnnnnn	Lower than the minimum value	
2nd	2nd model , wait for combination key	
oFF	Power off	
ACC	Accumulate	
noACC	Cannot be accumulated	
dEL	Clear the last accumulation value data	
nodEL	Cannot be cleared	
CLEAR	Clear all the accumulation data	
StorE	Save the display value data	
LASt0	Check the weight serial number	

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Q: The scale does not turn on.

A: Make sure the power cord is plugged in, and that there is power. One easy way to test this is by connecting another appliance to the same outlet and see if it's operational.

## Technical Support

Please email [support@optimascale.com](mailto:support@optimascale.com) if you have any further questions.